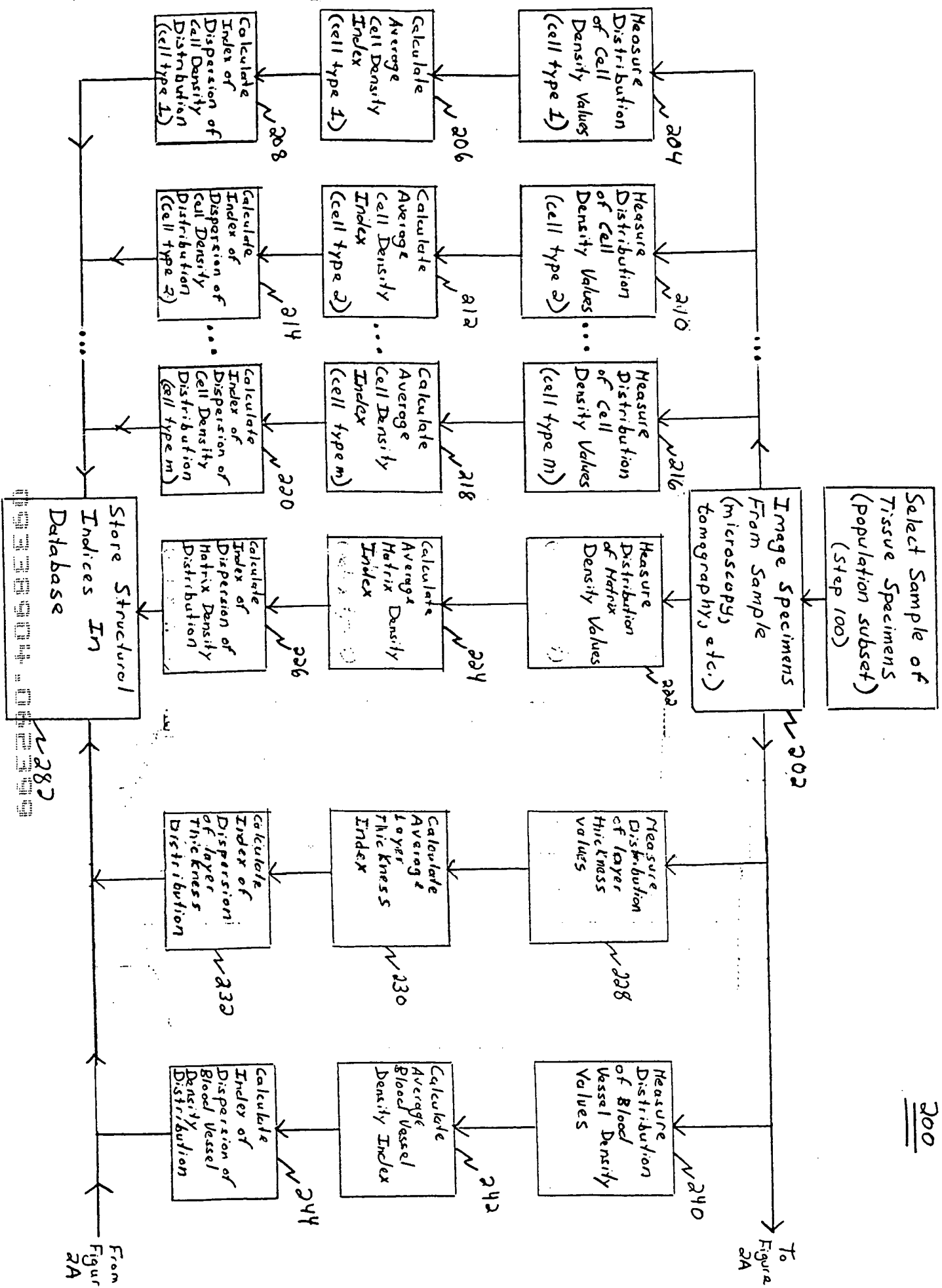


Figure 1



From
Figure
2A

Imaging Information \rightarrow To Figure 2B

N_{246}
Measure Distribution of Relative Cell Location Values
(proximity of cell type 1 to cell type 2)

N_{252}
Measure Distribution of Relative Cell Location Values
(proximity of cell type 1 to cell type 3)

N_{258}
Measure Distribution of Relative Cell Location Values
(proximity of cell type X to cell type Y)

N_{248}
Calculate Average Relative Cell Location Index
(cell type 1 / cell type 2)

N_{254}
Calculate Average Relative Cell Location Index
(cell type 1 / cell type 3)

N_{260}
Calculate Average Relative Cell Location Index
(cell type X / cell type Y)

N_{250}
Calculate Index of Dispersion of Distribution of Relative Cell Location Values
(cell type 1 / cell type 2)

N_{256}
Calculate Index of Dispersion of Distribution of Relative Cell Location Values
(cell type 1 / cell type 3)

N_{262}
Calculate Index of Dispersion of Distribution of Relative Cell Location Values
(cell type X / cell type Y)

To Figure 2B From Figure 2B

To Figure 2

Figure 2A

400

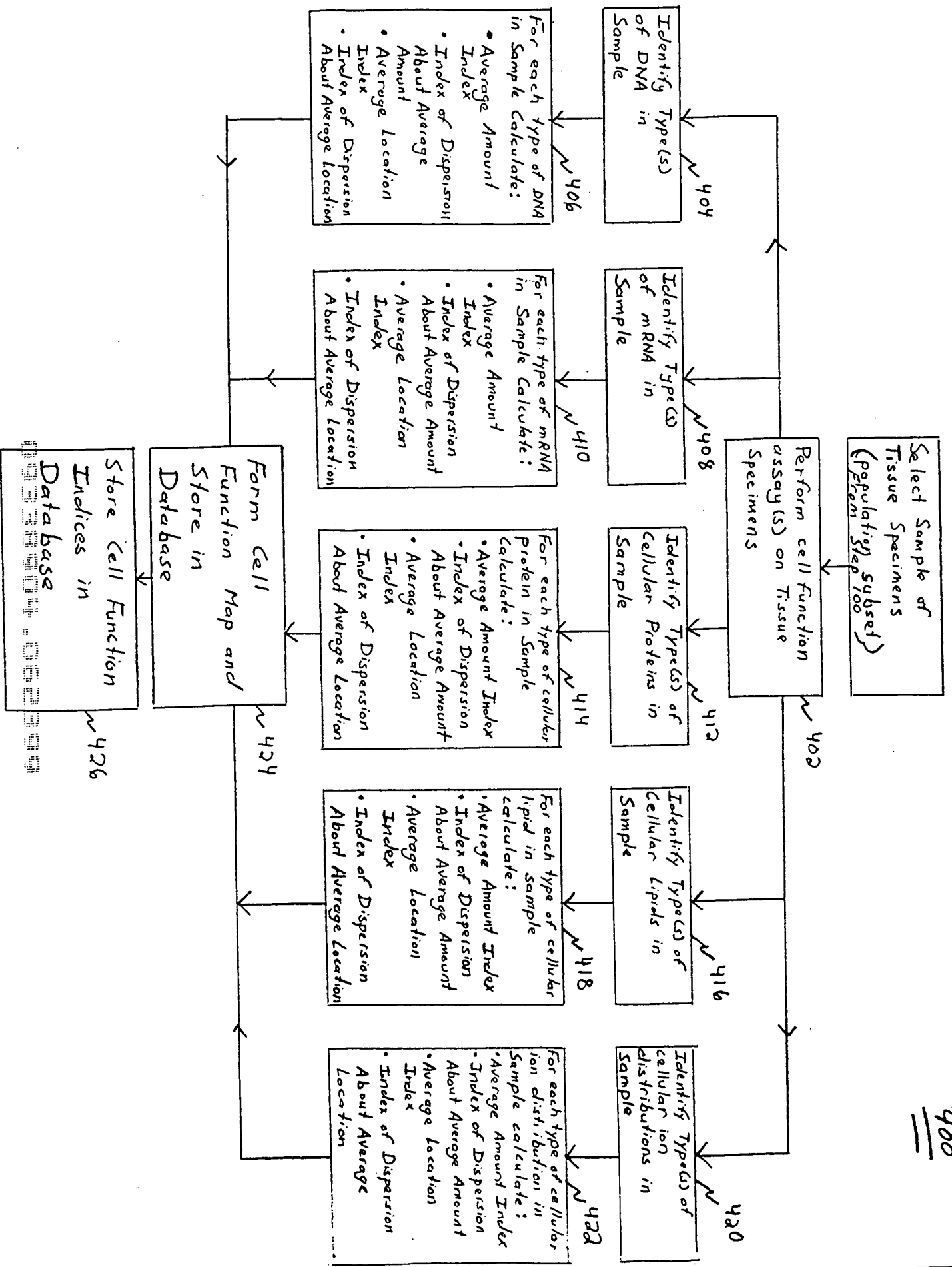


Figure 4-

Tissue Population	Tissue Type	Race of Population	Gender of Population	Age Bracket of Population	Geographic Location of Population
Tissue Layer No.					
Average Layer Thickness					
Index of Dispersion About Average Thickness					
Average Cell Density Index (cell type 1)					
Index of Dispersion About Average Cell Density (cell type 1)					
Average Cell Density Index (cell type 2)					
Index of Dispersion About Average Cell Density (cell type 2)					
⋮					
Average Cell Density Index (cell type m)					
Index of Dispersion About Average Cell Density (cell type m)					
Average Matrix Density Index					
Index of Dispersion About Average Matrix Density (matrix type 1)					
Average Relative Cell Location Index (cell type 1 / cell type 2)					
Index of Dispersion About Average Rel. Loc. Index (cell type 1 / cell type 2)					
Average Relative Cell Location Index (cell type 1 / cell type 3)					
Index of Dispersion About Average Rel. Loc. Index (cell type 1 / cell type 3)					
⋮					
Average Relative Cell Location Index (cell type x / cell type y)					
Index of Dispersion About Average Rel. Loc. Index (cell type x / cell type y)					
Average Relative Blood Vessel Loc. Index (cell type 1 / blood vessels)					
Index of Dispersion About Average Rel. Loc. Index (cell type 1 / blood vessels)					
Average Relative Blood Vessel Loc. Index (cell type 2 / blood vessels)					
Index of Dispersion About Average Rel. Loc. Index (cell type 2 / blood vessels)					
⋮					
Average Relative Blood Vessel Loc. Index (cell type n / blood vessels)					
Index of Dispersion About Average Rel. Loc. Index (cell type n / blood vessels)					

Figure 5

Tissue Population	Tissue	Race of Population	Gender Popula. on	Age Bracket of Population	Geographic Location of Population
Tissue Layer No.					
Average Elasticity Index					
Index of Dispersion About Average Elasticity					
Average Breaking Strength Index					
Index of Dispersion About Average Breaking Strength					

Figure 6

Tissue Population		Tissue Layer No
DNA (Type 1)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	
DNA (Type 2)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	
⋮		
DNA (Type m)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	
mRNA (Type 1)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	
mRNA (Type 2)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	
⋮		
mRNA (Type m)	Average Amount Index	
	Index of Dispersion About Average Amount	
	Average Location Index	
	Index of Dispersion About Average Location	

Continued on
Figure 7A

Continued From
Figure 7

66220-106660

Cellular Protein (Type 1)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
Cellular Protein (Type 2)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
⋮	
Cellular Protein (Type m)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
Cellular Lipid (Type 1)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
Cellular Lipid (Type 2)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
⋮	
Cellular Lipid (Type m)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location

Continued on
Figure 7B

From Figure 7A

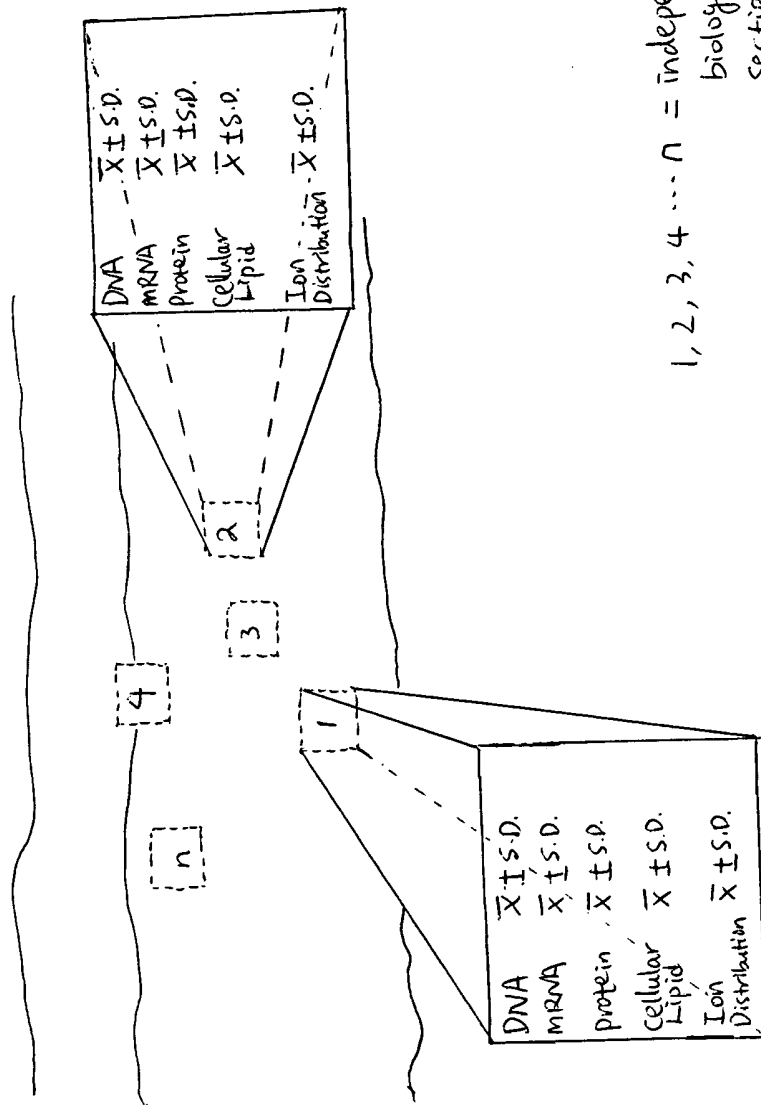
DNA (Type 1)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
DNA (Type 2)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location
⋮	
DNA (Type m)	Average Amount Index
	Index of Dispersion About Average Amount
	Average Location Index
	Index of Dispersion About Average Location

Figure 7B

Tissue Pop.	Indices		
	Structural Indices (Figs. 5, 5A)	Mechanical Indices (Fig. 6)	Cell Function Indices (Figs. 7, 7A, 7B)
Lung			
Intestine	"	"	"
Cartilage	"	"	"
Eye	"	"	"
Bone	"	"	"
Fat	"	"	"
Muscle	"	"	"
Kidney	"	"	"
Brain	"	"	"
Heart	"	"	"
Liver	"	"	"
Skin	"	"	"

Figure 8

Whole Tissue Biopsy



1, 2, 3, 4 ... n = independent biological sections

Figure 9

Figure 10

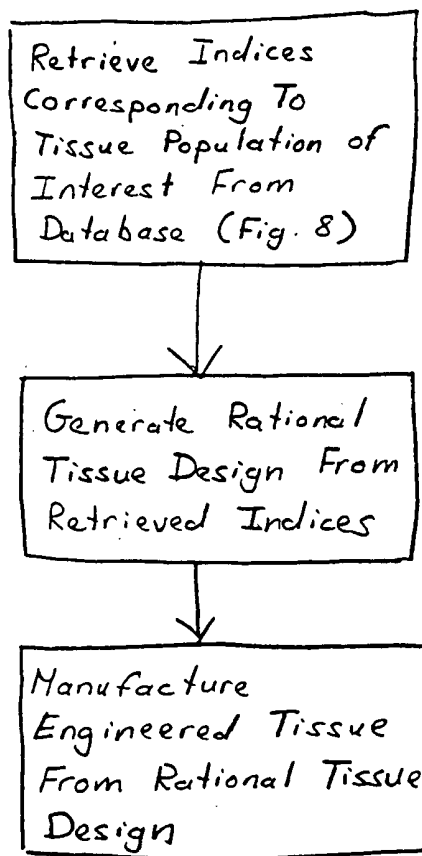
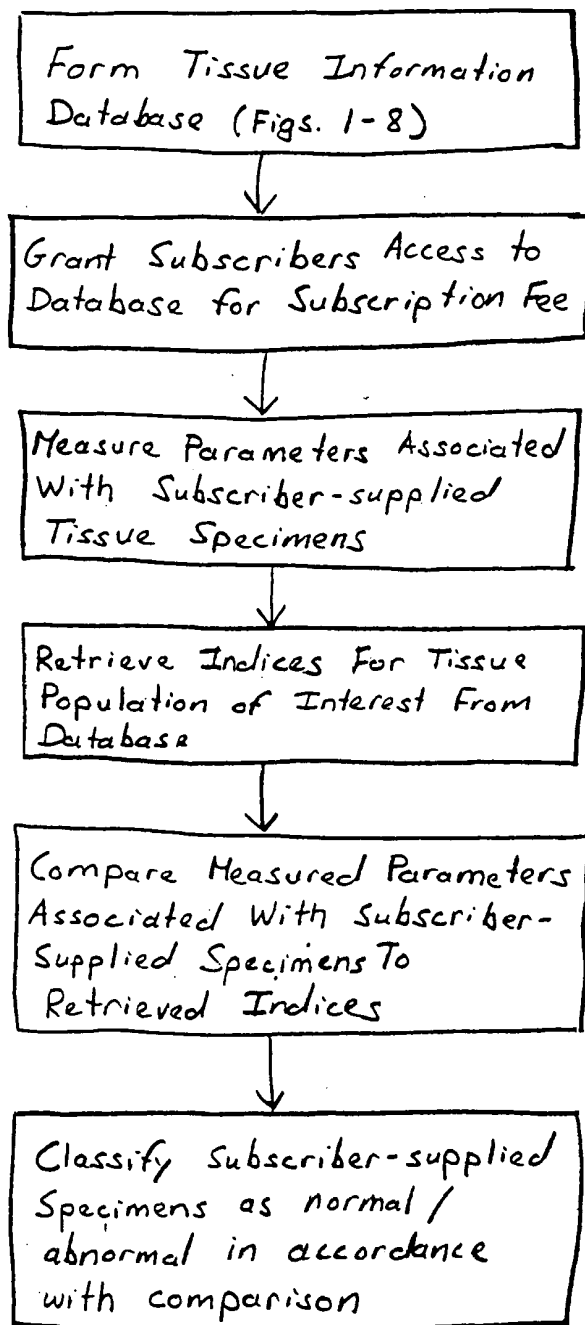


Figure 11



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